

Sheet <u>1</u> of <u>1</u>

Sheet I of I
Substitute Form PTO-1449

U.S. Department of Commerce Patent and Trademark Office

Patent and Trademark Office

O7977-303001

Application No. 07977-303001

Applicant

S. Yamazaki, et al.

Filing Date

February 20, 2002

February 20, 2002

U.S. Patent Documents							
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Tradeport Office	Attorney's Docket No. 07977-303001	Application No. 10/081,971	
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			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
Sur	AA	5 925 980	Jul 20, 1999	So et al.			
	AB	5 853 905	Dec 29, 1998	So et al.			
	AC	6 130 001	Oct 10, 2000	Shi et al.			
	AD	5 271 089	Dec 14, 1993	Ozawa			
Sun	AE	6 285 039	Sep 4, 2001	Kobori et al.			*

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass		lation No
50	AF	1 065 737	Jan 3, 2001	EPO		15 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5		
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	Other D	ocuments (include Author, Title, Date, and Place of Publication)
Examiner	Desig.	
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Sin	AI	Tang et al. "Organic electroluminescent diodes." Applied Physics Letters 51(12): 1987. p. 913-915.
<u>``</u>	AJ	Kijima et al. "A blue organic light emitting diode." Jpn. J. Appl. Phys. 38: 1999. p. 5274-5277.
	AK	C. Adachi et al. "Electroluminescence in organic films with three-layer structure." Jpn. J. Appl. Phys. 27(2): 1988. p. L269-L271.
	AL	C.W. Tang et al. "Electroluminescence of doped organic thin films." J. Appl. Phys. 65(9): 1989. p. 3610-3616.
	AM	"New Aspect of Research and Development of Organic EL." M&BE Seminar, Bulletin of Organic Molecular/Bioelectronics Subcommittee, Society of Applied Physics, 11(1): 2000. p. 3-12.
	AN	T. Wakimoto et al. "Organic EL cells using alkaline metal compounds as electron injection materials." IEEE Transactions on Electron Devices 44(8): 1997. p. 1245-1248.
	AO	S.A. Van Slyke et al. "Organic electroluminescent devices with improved stability." Appl. Phys. Lett. 69(15): 1996. p. 2160-2162.
	AP	D.F. O'Brien et al. "Improved energy transfer in electrophosphorescent devices." Appl. Phys. Lett. 74(3): 1999. p. 442-444.
	AQ	T. Tsutsui et al. "High quantum efficiency in organic light-emitting devices with iridium-complex as a triplet emissive center." Jpn. J. Appl. Phys. 38: 1999. p. L1502-L1504.
	AR	T. Tsutsui et al. "The operation mechanism and the light emission efficiency of the organic EL element." Text of the Third Lecture Meeting, Bulletin of Organic Molecular/Bioelectronics Subcommittee, Society of Applied Physics, p. 31-37.
Sin	AS	J. Kido et al. "Multilayer white light-emitting organic electroluminescent device." Science 367: 1995. p. 1332-1334.
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hu An	closure Statement (2)	Applicant Yamazaki et al.	
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4	Other D	ocuments (include Author, Title, Date, and Place of Publication)
Examiner Ip it ial	Desig. ID	Document
SIL	AT	Satoshi Seo et al., U.S. patent application serial no. 10/043,786, filed January 10, 2002
4	AU	Satoshi Seo et al., U.S. patent application serial no. 10/043,812, filed January 10, 2002
	AV	Satoshi Seo et al., U.S. patent application serial no. 10/060,427, filed January 29, 2002
	AW	Shunpei Yamazaki et al., U.S. patent application serial no. 10/062,005, filed January 31, 2002
	AX	Satoshi Seo et al., U.S. patent application serial no. 10/072,507, filed February 5, 2002
	AY	Shunpei Yamazaki et al., U.S. patent application serial no. 10/072,310, filed February 5, 2002
	AZ	Satoshi Seo et al., U.S. patent application serial no. 10/081,558, filed February 20, 2002
	AAA	Hirokazu Yamagata et al., U.S. patent application serial no. 09/852,090, filed May 10, 2001.
4	ABB	Satoshi Seo et al., U.S. patent application serial no. 10/026,064, filed December 21, 2001.
(in	ACC	Satoshi Seo et al., U.S. patent application serial no. 10/024,699, filed December 21, 2001.
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Substitute Disclosure Form (PTO-1449)

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U.S. Department of Commerce Patent and Trademark Office

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Application No. 10/081,971

Information Disclosure Statement by Applicant (Use several sheets if necessary) Applicant

S. Yamazaki, et al.

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Applicant S. Yamazaki, et al.

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